

FINAL YEAR PROJECT • B.TECH COMPUTER APPLICATIONS

Expense Tracker with Budget Insights

Personal finance app for students

PRESENTED BY

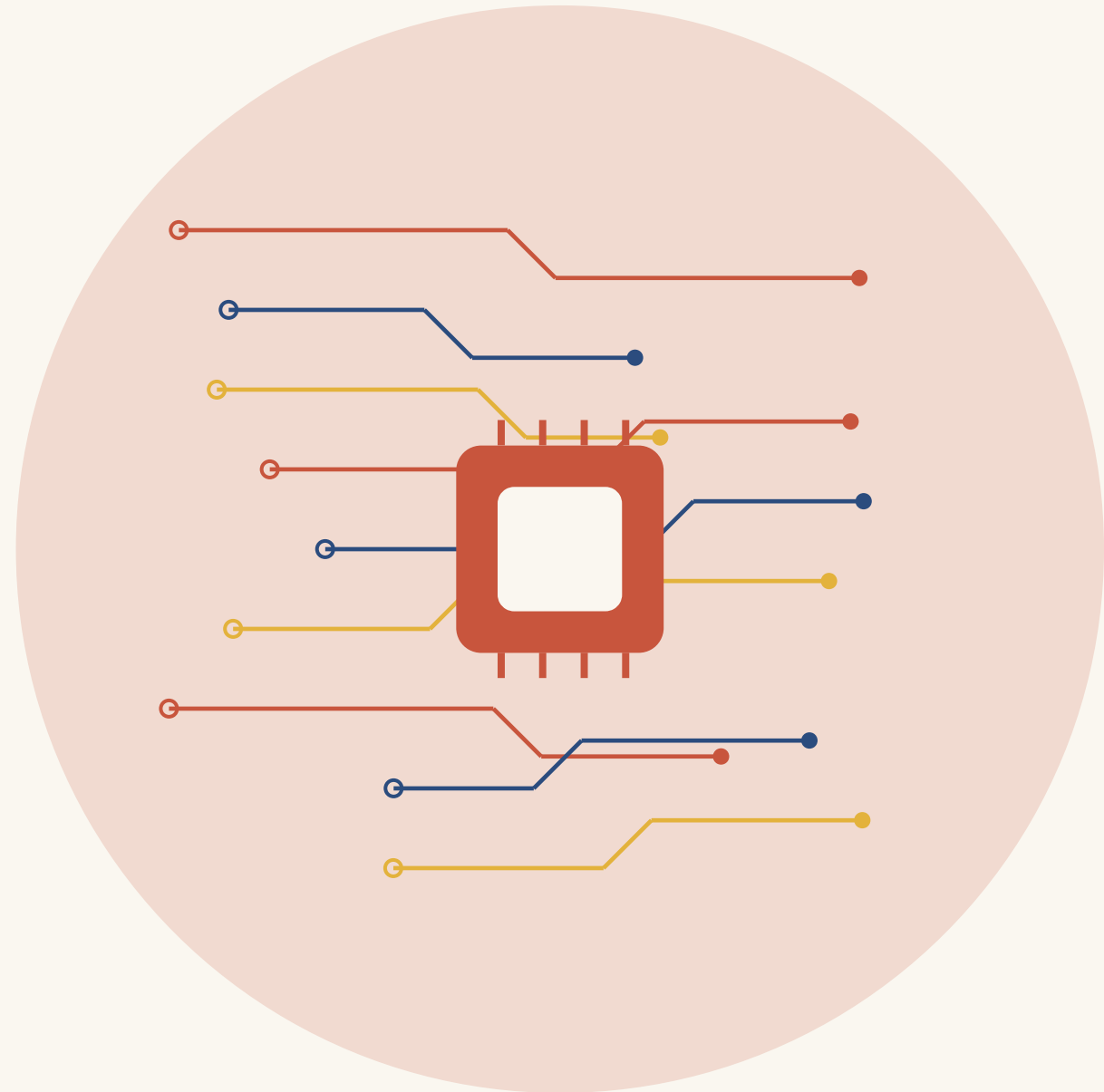
**Aarav Sharma • Diya
Patel**

GUIDED BY

Prof. R. K. Mehta

DEPARTMENT

**Computer
Applications, 2025–26**





Agenda

01

Introduction

02

Literature & Gap

03

Proposed System

04

Implementation

05

Results

06

Conclusion



**Tracking personal expenses
is still handled manually in
most places — slow, error-
prone and hard to track.**

Why this project matters



Introduction

- ▶ Tracking personal expenses matters to college students every day
- ▶ Current methods are manual, slow and hard to scale
- ▶ Affordable technology now makes automation practical
- ▶ This project builds expense tracker with budget insights as a working prototype

CONTEXT

Most college students we surveyed still rely on paper or spreadsheets for tracking personal expenses.



Literature survey

Study	Approach	Limitation
Study A	Rule-based automation	Not adaptive
Study B	Mobile data collection	No analytics
Commercial tools	Full-featured suites	Costly and complex

Representative summaries — replace with your own citations.



System architecture

01

Input

Data captured from users or sensors

02

Process

Core logic validates and analyses

03

Store

Secure database and backups

04

Output

Dashboard, alerts and reports



Block diagram

Every module talks through one simple, testable interface.

The system is built in layers: an input layer, a processing service, a database and a dashboard. Each layer can be tested independently, which keeps expense tracker with budget insights simple to maintain and extend.



Block diagram / flowchart



Project timeline

Jul

Requirement study

Survey of users and existing tools

Sep–Oct

Development

Modules built and unit tested

Dec

Report

Documentation and final review

Aug

Design

Architecture, database and UI wireframes

Nov

Testing

Integration and field testing



Implementation snapshots



Image 1

Main dashboard

Overview of live data



Image 2

Data entry

Simple forms with validation



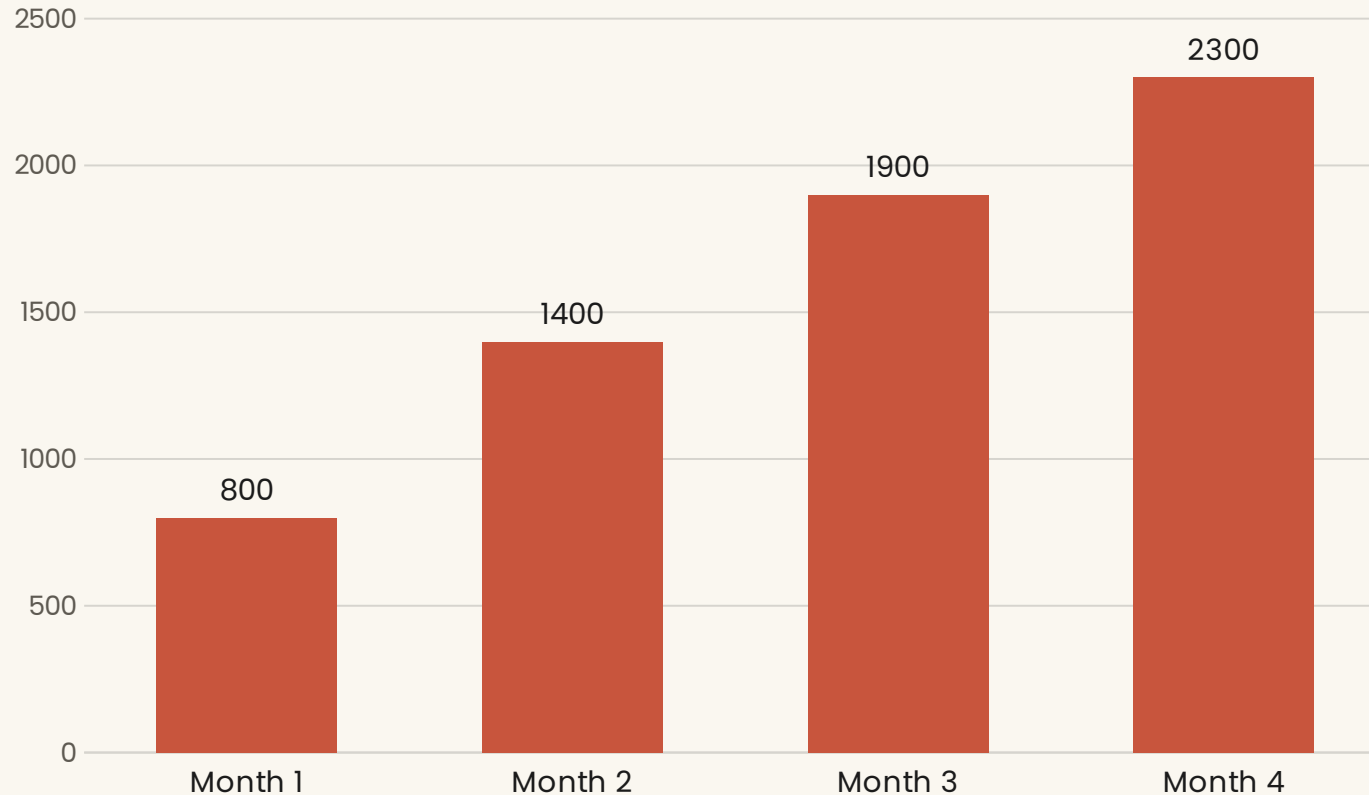
Image 3

Reports

Exportable summaries



Results



2.9x

more monthly savings

The prototype improved steadily over the evaluation period (sample data).

Sample data for illustration — replace with your own figures.



Key outcomes

2.9×

more monthly savings

100%

records digitised

< 1 s

average response

Figures from our test setup (sample data).



Conclusion

- ▶ Expense Tracker with Budget Insights meets its main objectives
- ▶ Automation saves time and reduces errors for college students
- ▶ The design is simple to extend and maintain



Image



Future scope

01

Mobile app

Native apps for Android and iOS

02

AI insights

Predictions from historical data

03

Scale-up

Deploy across more sites



Thank you

Questions and suggestions are welcome.

Aarav Sharma · Diya Patel · Dept. of Computer Applications